

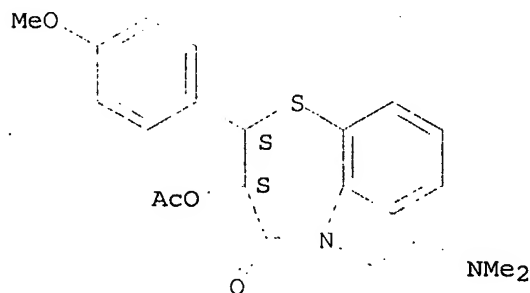
(FILE 'HOME' ENTERED AT 16:44:43 ON 11 FEB 2006)

FILE 'REGISTRY' ENTERED AT 16:44:49 ON 11 FEB 2006

	E "DILTIAZEM"/CN 25
L1	1 S E3
	E "DILTIAZEM"/CN 25
	E "CINNARIZINE"/CN 25
L2	1 S E3
	E "NIFEDIPINE"/CN 25
L3	1 S E3

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 42399-41-7 REGISTRY
 CN 1,5-Benzothiazepin-4(5H)-one, 3-(acetyloxy)-5-[2-(dimethylamino)ethyl]-2,3-dihydro-2-(4-methoxyphenyl)-, (2S,3S)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,5-Benzothiazepin-4(5H)-one, 3-(acetyloxy)-5-[2-(dimethylamino)ethyl]-2,3-dihydro-2-(4-methoxyphenyl)-, (2S-cis)-
 OTHER NAMES:
 CN (+)-cis-Diltiazem
 CN (+)-Diltiazem
 CN Adizem XL
 CN Cartia XT
 CN Coras
 CN d-cis-Diltiazem
 CN d-Diltiazem
 CN Diltiazem
 CN Dilzem
 FS STEREOSEARCH
 MF C22 H26 N2 O4 S
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DIOGENES, DRUGU, EMBASE, HSDB*, IFICDB, IFIUDB, IMSCOSEARCH, IMSPATENTS, IPA, MEDLINE, MRCK*, NIOSHTIC, PHAR, PROMT, PROUSDDR, PS, RTECS*, SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); USES (Uses)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4662 REFERENCES IN FILE CA (1907 TO DATE)

69 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

4665 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 298-57-7 REGISTRY
 CN Piperazine, 1-(diphenylmethyl)-4-(3-phenyl-2-propenyl)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Piperazine, 1-cinnamyl-4-(diphenylmethyl)- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 1-(3-Phenylallyl)-4-(diphenylmethyl)piperazine
 CN 1-Benzhydryl-4-cinnamylpiperazine
 CN 1-Cinnamyl-4-(diphenylmethyl)piperazine
 CN 1-Cinnamyl-4-benzhydrylpiperazine
 CN 1-Diphenylmethyl-4-cinnamoylpiperazine
 CN 516MD
 CN Aplactan
 CN Aplexal
 CN Apotomin
 CN Artate
 CN Carecin
 CN Cerebolan
 CN Cerepar
 CN Cinaperazine
 CN Cinazyn
 CN Cinnacet
 CN Cinnageron
 CN Cinnarizine
 CN Cinnipirine
 CN Corathiem
 CN Denapol
 CN Dimitron
 CN Dimitronal
 CN Eglen
 CN Folcodal
 CN Giganten
 CN Glanil
 CN Hilactan
 CN Ixterol
 CN Katoseran
 CN Labyrin
 CN Lazeta
 CN Marisan
 CN Midronal
 CN Mitronal
 CN N-Benzhydryl-N'-cinnamylpiperazine
 CN Olamin
 CN Processine
 CN R 1575
 CN R 516
 CN Sedatromin
 CN Sepan
 CN Siptazin
 CN Spaderizine
 CN Stugeron
 CN Stutgeron
 CN Stutgin
 CN Toliman
 FS 3D CONCORD
 MF C26 H28 N2
 CI COM
 SR CA
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHM, DDFU, DRUGU, EMBASE, IFICDB, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*, PROMT, PROUSDDR, PS, RTECS*, SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAPlus document type: Book; Conference; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological
study); PREP (Preparation); PRP (Properties); RACT (Reactant or
reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
(Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP
(Preparation); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

CH₂--CH--CH--Ph

N

N

CHPh₂

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

735 REFERENCES IN FILE CA (1907 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
735 REFERENCES IN FILE CAPLUS (1907 TO DATE)
13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 21829-25-4 REGISTRY

CN 3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(2-nitrophenyl)-
, dimethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(o-nitrophenyl)-
, dimethyl ester (8CI)

OTHER NAMES:

CN 2,6-Dimethyl-3,5-dicarbomethoxy-4-(2-nitrophenyl)-1,4-dihydropyridine

CN 2,6-Dimethyl-4-(2-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylic acid
dimethyl ester

CN 4-(2-Nitrophenyl)-2,6-dimethyl-3,5-dicarbomethoxy-1,4-dihydropyridine

CN Adalat

CN Adalat 10

CN Adalat 20

CN Adalat 5

CN Adalat CC

CN Adalat CR

CN Adalat Crono

CN Adalat FT

CN Adalat GITS

CN Adalat GITS 30

CN Adalat LA

CN Adalat LP

CN Adalat Oros

CN Adalat PA

CN Adalat Retard

CN Adalate

CN Adapine

CN Adapress

CN Alat

CN Aldipin

CN Alfadat

CN Alonix

CN Alonix S

CN Alpha-Nifedipine Retard

CN Angipep

CN Anifed

CN Anpine

CN Apo-Nifed

CN Aprical

CN BAY 1040

CN BAY-a 1040

CN Bonacid

CN Calcibloc

CN Calcigard

CN Calcilat

CN Camont

CN Cardifen

CN Cardilat

CN Cardilate

CN Cardionorm

CN Chronadalate

CN Chronadalate LP

CN Citilat

CN Coracten

CN Coral

CN Cordafen

CN Nifedipine

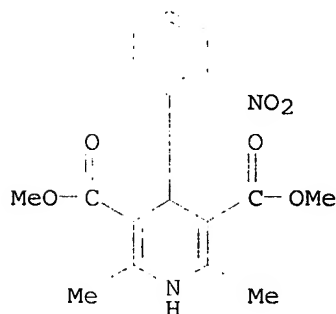
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
DISPLAY

FS 3D CONCORD

DR 11104-22-6, 101539-70-2, 101554-38-5

MF C17 H18 N2 O6

CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PATDPASPC, PHAR, PROMT, PROUSDDR, PS, RTECS*, SCISEARCH, SPECINFO, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, WHO
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 DT.CA Caplus document type: Book; Conference; Dissertation; Journal; Patent; Report
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 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7627 REFERENCES IN FILE CA (1907 TO DATE)
 105 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 7634 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 6 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:168901 CAPLUS
DOCUMENT NUMBER: 141:199402
TITLE: Screening of bioadhesive materials for oral sustained-release diltiazem
AUTHOR(S): Li, Yunchun; Fu, Jie; Zhang, Zhirong; Yang, Xiaochuan
CORPORATE SOURCE: Department of Nuclear Medicine, West China Hospital of Sichuan University, Chengdu, 610041, Peop. Rep. China
SOURCE: Zhonghua Heyixue Zazhi (2002), 22(6), 376-378
CODEN: CITCDE; ISSN: 0253-9780
PUBLISHER: Jiangsusheng Yuanzi Yixue Yanjiuso
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

TI Screening of bioadhesive materials for oral sustained-release diltiazem
AU Li, Yunchun; Fu, Jie; Zhang, Zhirong; Yang, Xiaochuan
AB The bioadhesive materials for oral sustained-release diltiazem was screened. The bioadhesion force of adhesive hydroxypropylmethylcellulose (HPMC) polymer, carbomers (Cb), PVPk30 and CMCNa with rat gastric and intestinal mucosa and the excretion rate of the adhesives in gastrointestinal tract of rats were measured to screen the best bioadhesive material. The bioadhesive ability of the best bioadhesive material was tested in gastrointestinal tract of dogs with in vivo radionuclide tracing imaging. The bioadhesion force of Cb with rat intestinal mucosa (19.6 - 31.0 g) was bigger than that of other materials (4.0 - 24.3 g), and the excretion rate of Cb934 was the slowest in gastrointestinal tract of rats. The Cb934 remarkably increased the retention time of its preparation in the gastrointestinal tract of dogs. Cb934 can be used as bioadhesive material of oral sustained-release medicine.

L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:434091 CAPLUS
DOCUMENT NUMBER: 122:222710
TITLE: Liposomes-based nasal delivery system of nifedipine: Development and characterization
AUTHOR(S): Vyas, S. P.; Goswami, S. K.; Singh, Ranjit
CORPORATE SOURCE: Pharmaceutics Laboratory, Department of Pharmaceutical Sciences, Dr H.S. Gour Vishwavidyalaya, Sagar (M.P.), 470 003, India
SOURCE: International Journal of Pharmaceutics (1995), 118(1), 23-30
CODEN: IJPHDE; ISSN: 0378-5173
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

TI Liposomes-based nasal delivery system of nifedipine: Development and characterization
AU Vyas, S. P.; Goswami, S. K.; Singh, Ranjit
AB Multilamellar liposomes bearing nifedipine were prepared using a conventional cast film method. The prepared liposomes were evaluated for release characteristics, in vitro, in situ bioadhesion and in vivo absorption following nasal administration. Charged components, stearylamine, dicetyl phosphate and some fusogenic/bioadhesive material were also incorporated into the liposomes. It was observed that pos. charged liposomes possessed maximum bioadhesion while lysophosphatidylcholine liposomes showed considerable bioadhesion. In vivo expts. revealed that the nasal administration of liposomes eliminated hepatic first-pass metabolism and could maintain an effective drug concentration for prolonged periods of time with improved bioavailability.

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(FILE 'HOME' ENTERED AT 16:27:29 ON 11 FEB 2006)

FILE 'CAPLUS' ENTERED AT 16:27:42 ON 11 FEB 2006

L1	4717 S CALCIUM (W) CHANNEL (W) BLOCKER
L2	1584 S L1 AND (DILTIAZEM OR CINNARIZINE OR NIFEDIPINE)
L3	15 S L2 AND (PERMEATION (W) ENHANCER) OR (BIOADHESIVE (W) MATERIAL
L4	15 DUPLICATE REMOVE L3 (0 DUPLICATES REMOVED)
L5	14 S L2 AND (CONTROLLED OR TIMED OR DELAYED) (W) RELEASE